

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 85/TY00M91/WO	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/IB2005/000344	International filing date (day/month/year) 11/02/2005	(Earliest) Priority Date (day/month/year) 13/02/2004	
Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☒ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/000344

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,7-11,13 (insofar related to claims 7-11)

A voltage generator device with a voltage generating portion, an observing portion and a control portion.

2. claims: 6,12

A motor vehicle comprising an electricity storage means, a voltage generator device and an automatic engine stop control means.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/000344

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M3/156 F02N11/08 F02N11/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02M F02N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 784 893 A (RANDO R,US) 8 January 1974 (1974-01-08) column 9, line 37 - line 54; figures 1,2 column 11, line 30 - line 50 -----	1-5, 7-11,13
X	EP 0 483 744 A (HITACHI, LTD) 6 May 1992 (1992-05-06) page 11, line 1 - line 26; figures 8,10 -----	1,2,7,8, 13
X	US 5 029 269 A (ELLIOTT ET AL) 2 July 1991 (1991-07-02) column 3, line 41 - line 59; figure 1 -----	1,4,5,7, 10,11,13
X	EP 1 079 496 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 28 February 2001 (2001-02-28) the whole document -----	6,12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 October 2005

Date of mailing of the international search report

27 OCT 2005

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INTERNATIONAL SEARCH REPORT

Intern	ial Application No
PCT/IB2005/000344	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 30 37 195 A1 (DETA-AKKUMULATORENWERK GMBH; DETA-AKKUMULATORENWERK GMBH, 3422 BAD LAU) 15 April 1982 (1982-04-15) page 7, line 11 - page 8, line 31 -----	6,12

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. Application No

PCT/IB2005/000344

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3784893	A	08-01-1974	AU 6421174 A	10-07-1975
			BE 809575 A1	02-05-1974
			CA 992605 A1	06-07-1976
			DE 2400823 A1	11-07-1974
			FR 2324158 A1	08-04-1977
			GB 1444661 A	04-08-1976
			IT 1004692 B	20-07-1976
			JP 1229794 C	19-09-1984
			JP 49101817 A	26-09-1974
			JP 59006127 B	09-02-1984
			NL 7400113 A	12-07-1974
			SE 393495 B	09-05-1977

EP 0483744	A	06-05-1992	NONE	

US 5029269	A	02-07-1991	NONE	

EP 1079496	A	28-02-2001	JP 3468167 B2	17-11-2003
			JP 2001069681 A	16-03-2001
			US 6605946 B1	12-08-2003

DE 3037195	A1	15-04-1982	NONE	
